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An examination request under § 44 of the Patent Act has been filed.

- (54) Use of hydrothermal mineral deposits to improve the light-quantum resonance effects of the body by molecularly dispersed distribution, particularly for preventive health care
- (57) The invention utilizes preferably natural, health-promoting, hydrothermal, inorganic and organic raw materials as free as possible from environmental toxins, refines them and combines them into molecularly dispersed distribution, so that, by means of the novel combinations of materials obtained, the biophoton emission of the body fluids can be so increased that said fluids are influenced by the improved light-conductivity of the DNA (deoxyribonucleic acid) to such an extent that quantum resonance effects occur in the body. Such light-quantum resonance effects can be enhanced to produce light-quantum coherence by comprehensively enriching the fluid balance, especially the electrolytes in the body, with nanocrystals of inorganic, hydrothermal mineral salts, high-purity light-conductive materials composed of precious minerals and organic plant and animal substances, via the skin, the digestion and the respiration, or intravenously. By means of the present invention, the utilization of weak electromagnetic waves can be assisted in a frequency-specific manner, the purging of deposits from the cells improved, and the evacuation of harmful substances promoted, so as to achieve a superconductivity and superfluidity of the body fluids in order to fully re-equilibrate psychosomatic skin and hair problems, mineral and trace-element deficiencies, immune deficiency, and many other conditions, in preventive care, as an adjunct to therapy, and during follow-up treatment, especially for spa-medical, medical-cosmetic, ...

**The following information has been taken from the documents filed by the applicant.**

## Description

The health-promoting effects and therapeutic indications of thermal baths and sulfur, marsh, mud, salt, medicinal and thermal springs are known. Hydrothermal mineral formations originate from aqueous solutions at temperatures of between about 350°C and 100°C. As saturated solutions cool, mineral-bearing formations and noble gases separate. In addition, the interreaction of aqueous solutions results in the precipitation of difficultly soluble, usually crystalline compounds, which accumulate on walls, in fissures, in cavities, and the like and heretofore have not been exploited further in the sense of this invention.

In the search for natural substances that are of the utmost purity, i.e., have not been damaged by environmental pollution, to use in the making of spa preparations, naturopathic remedies, nutritional supplements and health care products, hydrothermal mineral deposits containing precious minerals whose very molecular distribution has been restored have been recognized as very good, non-environmentally-polluting primordial substances that absorb, store and retransmit radiation.

Biophoton research has revealed that every cell emits in the 180-800 nm range at  $10^5$  reactions per second over the entire light spectrum, including UV and IR radiation. The use according to the invention of high-purity nanocrystals that have been reconverted to a molecularly dispersed distribution is better suited to the low-loss transmission of electromagnetic waves than are impure, coarser materials. A more ordered, comprehensive biophoton conducting system is created.

In 1982, the French researcher Alain Aspect demonstrated that systems that are separated continue to interact regardless of how far away the individual parts are from each other! With reference to precious-mineral nanocrystals, this means that they continue to interact in colloidal dispersion. Because of the light-conductivity of high-purity precious minerals, the bioinformation from the light reaches the cells through foods and the skin more rapidly, with fewer losses, with less adulteration, and thus more completely. The vehicle, however, must be the fluid balance<sup>1</sup>, comprising

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<sup>1</sup>TRANSLATOR'S NOTE: Throughout the document, the writer seems to use the term "fluid balance" to mean, simply, "body fluids." (The first sentence in the next paragraph provides a clearer example.)

mineral salts and trace elements, which supplies the entire organism and keeps it alive. If the mineral metabolism is weakened, illnesses occur; if it is balanced, health is restored.

An object of the invention is to suspend the fluid balance with natural mineral deposits from hydrothermal sources, high-purity and therefore particularly light-conductive precious minerals, and plant and animal substances, in a health-promoting mixing ratio, and make it available as a minimum daily requirement [sic]. Administration via the digestion, the intravenous route, the skin or the respiration can be contemplated.

In this connection, particular emphasis is placed on natural substances, since in scientific studies performed by the biophoton researcher Prof. Dr. Fritz Popp of Kaiserslautern, the addition of a natural plant extract to a cosmetic preparation was found to yield better results than synthetic substances. The experimental material was orchid blossoms and lotus seeds, extracts of which were mixed in the same proportions. This natural extract was compared in terms of its composition of amino acids, enzymes, vitamins, minerals, trace elements, ect. [sic], to a synthetic extract of -- as nearly as possible -- the same chemical composition. The biophoton emission of *Acetabularia* algae stressed by vitamin reduction was measured. Adding the natural extract reduced the stress of these sensitive monocellular organisms to a significantly greater degree than the addition of the synthetic extract. There were significant differences in both passive and induced emission between treatment with the natural and the synthetic extracts. (Marco Bischof, Biophotonen, "Das Licht in unseren Zellen" [punctuation sic] [Biophotons, "The Light in Our Cells"], Verlag Zweitausendeins, publisher.)

According to Dr. med. Wilhelm Schüßler, natural minerals and trace elements have two vital functions in our bodies:

1. They produce the electrical voltage needed for metabolism and for organ function. As in a battery, they supply the current that maintains our vital processes.
2. They are important to the fluid balance, the acid-base ratio, the pH of the blood and the skin. Almost more important is the task of maintaining osmotic pressure by means of bioelements.

The human body is 65% water, some of which is stored within the cells as cell fluid, and the remainder in the cell environment. It is vital for the body to absorb nutrients, hormones, yeasts, enzymes and vitamins in a balanced manner and in as unadulterated a form as possible, and to excrete toxins, undigested residues and gases. These pass into the cells from the outside and must be transported out of them. This happens owing to the existence of an imbalance of dissolved mineral salts, biosubstances, in the body fluids. Biosubstances must always be in a set ratio to one another. If the ratio is not right, then they are programmed to restore it to what it should be. The substances push to achieve equilibrium. This results in osmotic pressure, which causes fluids to be exchanged through the cell membrane. This is the only way the organism can be kept alive. Biosubstances from organically grown plants and high-purity minerals and trace elements must not only be present, they must also be in the proper ratio, be pure, and thus be light-conducting.

Modern food production denatures and destroys the vital constituents of our food to an ever-greater extent. Functional disorders, stress, addictive behaviors, deficiency diseases that can lead to life-threatening conditions are possible. Prevention and relief can be achieved by adjusting the balance of minerals and trace elements! Iron deficiency results in anemia. Cardiac arrhythmias, muscular twitching and cramps occur in potassium deficiencies; if magnesium is low, stress reactions occur. A deficiency of zinc leads to skin diseases and hair loss; low copper levels can cause growth disorders in children; manganese deficiency produces bone deformities and sterility. But the mineral salts alone are not enough! It is now known that at least 15 elements are vital, as so-called major and trace elements. They are: iron, zinc, copper, chromium, manganese, nickel, bromine, molybdenum, fluorine, tin, silicon, cobalt, iodine, vanadium and selenium. These elements are present in natural form in the use according to the invention.

The electrical conductivity of minerals and mineral solutions, their interactions with light, and the storability and conductivity of information in crystals and amber are known. For demonstrating quantum effects in crystals, von Klitzing was awarded the Nobel Prize in Physics.

Dr. Ulrich Warnke, head of the Technical Biomedicine Department at the University of the Saarland, obtained, *inter alia*, the following results in scientifically conducted experiments: light-quantum resonance effects contribute to the stimulation of DNA, the production of cell energy, the enhanced stimulation of cells, enzymes and hormones, strengthening of the deep action of

radiation in the tissues, and the destruction of free radicals. Ions are set in motion by quantum effects. A current is produced that stimulates cell energy and induces coherence in the brain. Coherence stimulates self-healing forces. From: Teleakademie<sup>2</sup>, November 5, 1995.

Light-quantum resonance effects can be improved by comprehensively enriching the fluid balance, especially the electrolytes in the body, with nanocrystalline compounds of various trace elements and inorganic, hydrothermal mineral salts, high-purity, light-conductive substances composed of precious minerals and organic plant and animal substances, via the skin, the digestion, the respiration or the intravenous route. By means of the present invention, the utilization of weak electromagnetic waves can be assisted in a frequency-specific manner, the purging of deposits from the cells improved, and the evacuation of harmful substances promoted.

Thus, it is inevitable that nanocrystal technology will become a part of natural medicine. Biophoton research looks for solutions with regard to previously unexplainable phenomena, such as the control of physiological processes, the "language" cells speak to each other, biochemical reactions, and much more.

Such solutions are offered by the combinations of primordial substances that have been developed through gemstone and healing-stone therapy and the processes needed to make them! In the production of nanocrystals, the difficultly soluble crystals are difused [spelling error sic] with the readily soluble crystals by chaotic centrifugal forces. Elements that do not combine with each other by melting or via chemical processes interpenetrate during the high-energy milling process used, at lower temperatures and in a simpler process than with the methods in common use heretofore.

As a result of homogenization, the coherent biophoton emission of the inorganic crystals is transmitted integrally to the organic substances and vice versa. If the suspension is properly polarized, the enhanced conductivity, ranging as far as superconductivity and superfluidity, makes it possible to achieve a communication of physiological processes that is accompanied by no losses of energy ("cell communication" is intensified to such an extent that it becomes easier to measure!).

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<sup>2</sup>TRANSLATOR'S NOTE: A distance learning system.

All life developed from the sea. Cells still have the same chemical composition as seawater, which in turn is composed of sediments, deposits of all types of rock, minerals, elements, salts and cosmic primordial substances. Unfortunately, deficiency phenomena are becoming increasingly common due to improper nutrition, pressure, stress, akinesia, environmental pollution, and the abuse of drugs, alcohol, cigarettes and other injurious articles of consumption in broad segments of the population.

The subject matter of this invention is the combining of salient properties of various natural substances and novel combinations of substances to create novel and more physiologically compatible natural remedies for human beings and animals, particularly the electrolytic and mildly electrical effects and the like produced by the cutaneous stimuli of healing, thermal, mud and salt waters. The therapeutic indications are undisputed, and include diseases of the musculoskeletal system, organic and functional diseases of the nervous system, inflammations of the female reproductive system, skin diseases, diseases of the airways, obesity, lithiasis, circulatory disorders, and many more.

A preferred object of the invention is to restore to a molecularly dispersed distribution (less than 1 nm) inorganic, hydrothermal mineral formations, insofar as possible with co-use of the corresponding thermal, healing, salt or mineral water, their<sup>3</sup> noble gases, also seawater, mineral water or springwater and with co-use of additional, high-purity crystals, mineral substances and trace elements, such as those produced by the natural purification process under high heat and high pressure during the formation of gemstone crystals, preferably also metals, oxides, liquids, salts, acids, bases, gases, soils and sands from various parts of the world, deposits in placer formations, clays, diatoms, meteorites, coals, ashes, mud, mineral oil mixed with organic plants, seaweed, algae, other marine plants, roots, cortex, sprouts, leaves, flowers, seeds, tops<sup>4</sup>, fruits, spices, amber, resins, mineralized, fossilized wood and/or animal substances, preferably milk products, insect and bee products, pearls, oysters, snails, corals, fish (cuttlebone), marine animals and mussels, to homogenize them, or to make them available as a colloidal binder (1-100 nm) joining inorganic and organic substances, particularly, for purposes of spa medicine, cosmetics, nutritional supplementation, dental medicine, veterinary

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<sup>3</sup>TRANSLATOR'S NOTE: Sic; presumably referring to "mineral formations."

<sup>4</sup>TRANSLATOR'S NOTE: Or "herbs"; the German word, *Kräuter*, means both.

medicine, natural medicine and pharmaceuticals, to dissolve them as reversible gels (brines), suspend them (larger than 100 nm), also preferably from 300 to 900 nm (nanometers) or as microcrystals.

From this binder, rendered homogeneous at the gel level and joining solid, liquid, superliquid, superconductive, gaseous and ethereal substances, to make health care preparations such as, for example, bath salts, bath additives, bath waters, balms, personal-care creams, massage oils, lotions, soap, deodorants, suntan oils, facial masks, waters for inhalation, thermal waters, mineral waters, sauna splashes, fragrance compositions, perfumes, preparations for the prevention of oral hygiene [sic], cavities, tartar, gingivitis and periodontosis and that strengthen the immune system and promote healing, for example, foods, nutritional supplements, macrobiotic and orthomolecular nutritional substances, dietetic foods, processed or prepared meals, drinks, drops, tinctures, essences, elixirs, homeopathic potencies, globules, tablets, naturopathic remedies, veterinary and other preparations, including the pharmaceutical.

Our patented "Cosmetic composition, particularly for decorative purposes," EP 0 236 374 B1, and Patent Application (Unexamined) DE 35 30 902 A1 are not directed to hydrothermal minerals, but chiefly to color effects deriving from trace elements stored in gemstones and their hypoallergenic properties. The stated particle size is also different in that case, it being 0.0005-0.003 mm. Minerals, trace elements, plants and animal substances with particle sizes below 0.0005 mm have been found to suspend, emulsify, homogenize and dissolve better in practice.

The patent application filed by us as Patent Application (Unexamined) DE 35 30 901 A1, "Mineral-containing nutritional supplement with a content of finely milled, powdered gemstone or gemstone mixtures," is directed primarily to gemstone powder with a particle size distribution of 400-800 nm. This particle size has proven inadequate in practice for dissolving trace elements in any substantive manner! The milling method cited is an agate mill [grammar sic].

The present use, on the other hand, is directed first and foremost to hydrothermal deposits. It contemplates much finer particle sizes, extending into molecularly dispersed ranges, in combination with nanominerals, trace elements and organic substances of plant and animal origin, which are suspended [in] various liquids at low temperatures by means of a high-energy milling process to make novel combinations feasible. This cannot be achieved with an agate mill. Moreover, the wear is much

too great: there can be too many agate particles in the milled stock, even in cases where few or none are desired.

When hydrothermal rock is placed in suspension, an additional, gaseous state of aggregation becomes available, which evolves either cold or with very slight warming and can be assimilated in a targeted manner via the respiration. Unexamined Patent Applications No. 2 347 225 and No. 27 05 433 do not disclose the making of any combination of hydrothermal, inorganic and organic substances of comparable particle sizes or the novel spheres of action and novel produced combinations of active ingredients that are to be achieved by means of the new invention.

Hydrothermal minerals carry reversible gels, mineral substances and trace elements that were already dissolved in the thermal water, brine or mineral water. They are therefore easier to redissolve than other minerals.

A further novelty is the thorough suspension of thermal, mineral and brine deposits from different sources or beds with different components, also variable, containing mineral, metallic, plant and animal substances.

Experiments have shown that, for example, the high-energy milling of hydrothermal mineral deposits with thermal, mineral, salt, sulfur, fresh or seawater, juices, extracts, oils, fats, acids, bases and powders of plant or animal origin down to particle sizes in the nanometer range can result in the diffusion of substances that would otherwise be difficult or impossible to combine! As a result, in the new therapeutic modalities of "nanocrystal therapy," "gemstone and healing-stone therapy" and "quantum coherence therapy" that are currently being developed, completely novel combinations of active ingredients and potential applications -- including in preventive medicine -- are made feasible by improved quantum effects.

As raw materials, hydrothermal mineral deposits are much cheaper and are less expensive to process than, for example, rough gemstones or other production-worthy minerals, since they accumulate in most thermal, brine or mineral springs without cost or labor and so far have had to be discarded at considerable expense and without economic benefit.



As a rule, hydrothermal minerals occur only in Mohs hardnesses of 1-5, rarely as much as 7. The processing takes less time and causes much less wear and tear on energy [sic], machinery and materials, and is therefore much less expensive.

### Examples

1. In a preferred embodiment, the composition according to the invention is placed in a viscous carrier cream, macerated<sup>5</sup> with amber oil, almond oil, plant parts, cortex, flowers, ethereal oils, leaves, seeds, fragrances and thermal water, and made into a salve according to the invention for stimulating the circulation.

2. In a further preferred embodiment, the composition according to the invention is used to make a skin and joint balm. To this end, saltwater minerals are macerated and intimately mixed with amber powder, myrrh oil and pine oil with lily (*Lilium candidum*), ash tree, silver fir and ethereal oils and a balsamic cream is made therefrom.

3. A preferred embodiment is<sup>6</sup> the making of a body lotion.

To this end, the composition according to the invention is homogenized with skin oils of good physiological compatibility, e.g. apricot kernel oil, evening primrose oil, amber oil, jasmine absolute and myrrh oil, and is emulsified with beeswax.

4. A preferred embodiment of the composition according to the invention is the making of body oils and hair oils.

To this end, various vegetable and/or mineral oils are used as carrier materials. In the case of sunscreens, 0.2-10% gemstone and metal oxide nanocrystals according to the invention are also worked in, depending on the desired sun protection factor.

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<sup>5</sup>TRANSLATOR'S NOTE: Misspelled as the equivalent of "maccerated" (*mazzeriert* instead of *mazeriert*) throughout.

<sup>6</sup>TRANSLATOR'S NOTE: Examples 3 through 19 actually begin "preferred embodiment is...", with no initial capital for "preferred" and no article.

5. A preferred embodiment of the composition according to the invention is the making of bath additives.

For this purpose, thermal, mineral, sulfur and brine waters and salts identical to those of the source can be used and oxygen, carbon dioxide, silicic acid, boric acid, juniper extract and other plant and animal substances and fragrances added.

6. A preferred embodiment of the composition according to the invention is the making of hair shampoo.

To this end, mild, anionic cleansing ingredients, burdock oil, evening primrose oil, birch leaf extract, Spanish chestnut are macerated with amber, myrrh and ethereal oils and, after ripening, are emulsified.

7. A preferred embodiment of the composition according to the invention is the making of soaps and cleaning agents.

To this end, coconut oil, palm kernel oil, fragrances, amber powder and myrrh powder are mixed with sodium, vinegar[,] lemon extracts and artichoke extract, packaged and placed in commerce.

8. A preferred embodiment is the making of deodorants.

To this end, the composition according to the invention is processed with nanominerals made from tourmaline, in combination with amber, myrrh, glycerin, sage oil, lemon oil, peppermint (*Mentha piperita*), lycopodium, horsemint (*Mentha longifolia*), catnip (*Nepeta cataria*), quince (*Cydonia oblonga*), bergamot (*Citrus bergamia*), silver fir (*Abies alba*) and fragrances. The application can take the form of a roll-on deodorant, stick or cream.

9. A preferred embodiment is the making of an antiperspirant cream.

To this end, the composition according to the invention is macerated and mixed with nanocrystals made from smithsonite, corundum, amber, myrrh, English oak bark and fragrances, and filled into tubes.

10. A preferred embodiment is the making of a medicinal oil tincture against itching.

To this end, the composition according to the invention is roasted in sesame oil with pearl nanocrystals, tourmaline<sup>7</sup>, silicic acid nanocrystals, lady's mantle, fleabane (*Pulicaria dysenterica*), pennyroyal (*Mentha pulegium*), ginger powder, and is macerated, filtered and filled into bottles.

11. A preferred embodiment is the making of a cream for reddened, chapped skin.

To this end, the composition according to the invention is suspended in the high-energy milling process with smithsonite nanocrystals, myrrh, cinquefoil, bloodroot, sour cherry and almond oil, emulsified with gelling agents and filled in the warm state into small cream jars.

12. A preferred embodiment is the making of a moisturizing cream.

To this end, the composition according to the invention is macerated with pearl powder, olive oil, avocado oil, grapes, prickly pear extract, greater plantain, grape hyacinth, (*Loeopolda comosa*), aloe vera oil, hollyhock (*Alcea rosea*), carob and calendula (*Calendula officinalis*) and, after ripening, is emulsified with a protegin cream and filled into containers.

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<sup>7</sup>TRANSLATOR'S NOTE: "Tourmaline nanocrystals" was probably intended, the error merely being a matter of leaving off a hyphen at the end of *Turmalin*.

13. A preferred embodiment is the making of a dental-care chewing gum.

To this end, the composition according to the invention is blended with the resin of the mastic tree (*Pistacia*<sup>8</sup> *lentiscus*), medlar (*Mespilus germanica*) and basil. The result is a balsamic chewing-gum compound that tighten the gums.

14. A preferred embodiment is the making of a dentifrice.

To this end, the composition according to the invention is used with common mallow (*Malva sylvestris*), caraway, potassium fluoride, zinc citrate, silicon, fluorite nanocrystals, vitamins, vegetable extracts, myrrh, sage and sea salt.

15. A preferred embodiment is the making of an "after-sun cream."

To this end, nanominerals from pearls, hart's-tongue (*Phyllitis scolopendrum*), grapeseed oil, prickly pear and sorrel are macerated, enriched with silica gel and homogenized with the composition according to the invention.

16. A preferred embodiment is the making of an oral hygiene product.

To this end, the composition according to the invention is macerated with pearl nanoparticles, silicic acid, calcium phosphate, rhatany, myrrh, licorice, pine oil, clove oil, fennel oil, anise oil, sea buckthorn and menthol and filled into vials.

17. A preferred embodiment is the making of a paste for cellulitis (orange-peel skin).

To this end, the composition according to the invention is heated with precious topaz nanoparticles and ruby nanoparticles with fennel oil, geranium oil, lavender oil, melissa oil, patchouli oil, peppermint oil, rosemary oil, juniper oil, cypress oil and hazel leaves and left to ripen. Then emulsified with wool wax. [Sentence fragment sic.]

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<sup>8</sup>TRANSLATOR'S NOTE: Sic, for *Pistacia*.

18. A preferred embodiment is the making of a bath additive.

To this end, the composition according to the invention is milled with amber oil, pine oil, horse-chestnut seeds, mixed with various fragrances and packaged in portions.

19. A preferred embodiment is the making of a powdered deodorant.

To this end, the composition according to the invention is pulverized simultaneously with coral powder, tourmaline powder, myrrh powder, amber<sup>9</sup> and lycopodium powder, provided with fragrances, pressed, and used as a deodorant powder or powder spray.

20. Homeopathic potencies.

A further preferred embodiment is the making of homeopathic preparations. To this end, the composition according to the invention is mixed with plant extracts, animal substances, lactose, amber, pearls, coral powder, waters, acids, bases or alcohol. From these primordial substances, which can vary in composition, various potencies are made by the known homeopathic potentization method.

21. Veterinary medicine preparations.

For this purpose, the composition according to the invention is enriched together with plant extracts, animal substances, lactose, amber, pearls, coral powder and dried milk. From this basic substance, which can vary in composition, are made liquid, viscous or solid nutritional supplements for use in veterinary medicine.

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<sup>9</sup>TRANSLATOR'S NOTE: Again, "amber powder" was probably intended, the hyphen being missing.

22. Pharmaceutical preparations.

For this purpose, the composition according to the invention is homogenized with fumaric acid, borage seed oil, evening primrose seed oil and currant seed oil. The viscous oil is used for internal and external application in psoriasis.

23. Slimming preparation.

For this purpose, the composition according to the invention is macerated with linden blossoms, ginger powder, white cabbage, chlorophyll, piper leaves, honey and vitamin C, dried, and used as a bath additive or a drink.

24. Acne.

For this purpose, the composition according to the invention is macerated with lycopodium, carrot, burdock[,] hibiscus, sage, banana, honey, and nutmeg powder, suspended with amber, myrrh oil, frankincense oil and guggule oil, and used as a tincture.

25. Warts.

For this purpose, the composition according to the invention is macerated with amber oil, *Cassia alata*, broccoli, sea salt, thistle oil and linseed oil, suspended with anethist [sic] and hyacinth, and mixed intimately with Vaseline and used as a salve.

26. Sunscreen oil.

For this purpose, the composition according to the invention is closely combined with amber oil, roasted sesame oil, carotene, Vaseline oil, UVA and UVB filters made of nanocrystals, natural tanning agents and vitamins.

## 27. Foods/prepared meals.

Overfarming has caused many essential minerals and elements to be leached out of the soil, whereas toxic heavy metals are found in increasing proportions. The composition according to the invention lends itself to the remediation of mineral, trace-elements, yeast, enzyme and vitamin deficiencies with foods and supplements.

Health-promoting semi-prepared or prepared meal portions made from organic crops, characterized in that they are so selected that, together with the composition according to the invention, they meet the daily requirements for vitamins, building blocks and catalysts for enzymes, minerals and trace elements, ballast materials [punctuation, syntax sic], and prevent common illnesses defined according to the latest knowledge, e.g., high or low blood pressure, constipation, bulimia, vitamin, mineral, trace-element, iron, chromium, zinc deficiencies or the like, diabetes, stress syndrome, immune deficiency, alcoholism, nicotine addiction, drug addiction, obesity, anorexia, and aid in alleviation and cure. [Sentence fragment sic.]

## 28. A preferred embodiment is the making of a vegetable bar.

To this end, dried vegetables, herbs, spices, cereal products, milk products, nuts, seeds, yeasts, enzymes, vitamins, fruits, sweeteners and ballast materials are pressed together with various seasoning mixtures having different flavor orientations and a composition according to the invention, and used, for example, as a snack food to enhance learning ability, creativity, intelligence and concentration.

## 29. A further preferred embodiment is the making of a nutritional supplement.

To this end, the composition according to the invention is mixed with plant extracts, fruits, vitamins, enzymes, acids, sweeteners, mineral salts, ballast materials, tableting agents and pressed in a tableting system into tablets with an average weight of about 2 g. The tablets are suitable for being taken or dissolved in drinks in order to adjust the electrolyte balance and remediate deficiencies of vitamins, minerals and trace elements.

30. A preferred embodiment is the making of a vital elixir.

To this end, the composition according to the invention is mixed with ruby, garnet and rhodochrosite nanocrystals, elderberry powder, beet powder, rose hip powder, mountain ash powder, hawthorn powder, quince powder, ginseng powder, flower pollen powder, licorice powder, spices and succinate, and portioned.



## Claims

1. The use of hydrothermal mineral deposits to improve light-quantum resonance effects in the body by molecularly dispersed distribution, particularly for preventive health care, by means of thermal, healing, brine, mud, sulfur and mineral deposits, the integral restoration thereof to a molecularly dispersed distribution, fully homogenized with gemstone crystals, plant and animal substances as colloidal binders, for improved control of biophoton emission by means of nanocrystals, joining natural inorganic and natural organic substances, in order to resolve psychosomatic skin and hair problems and mineral and trace-element deficiency phenomena in a comprehensive manner in preventive, therapy-adjunctive and follow-up care, via the skin, the digestion, the intravenous route and the respiration, particularly for purposes of spa medicine, medical cosmetics, cosmetics, nutrition supplementation, oral and dental medicine, veterinary medicine, medicine and pharmaceuticals, including dietetic products, prepared meals, baby food, spa drinks and dietetic drinks.

The hydrothermal deposits concerned are deposits of calcite, arragonite<sup>10</sup>, dolomite, marble, sphalerite, smithsonite, wurzite<sup>11</sup>, manganite, hausmannite, neptunite, hornblende, calaverite, stephanite, hessite, krennerite, chalcocite, bornite, linnaeite, pyrrhotite, carrollite, ilmenite, ullmannite, marcasite, clinozoisite, pyrophyllite, nacrite, anchorite, rodochrosite, kutnahorite, epistilbite, heulandite, fluorite, basnasite, creedite, synchisite, tunisite, chabazite, graphite, coal, apophyllite, sellaite, carpolite, brookite, potassium feldspar, plagioclase, aeobite, idocrase, elbaite, dravite, schorl, buergerite, tsilaisite, uvite, liddicoatite, siderite, aragonite<sup>12</sup>, hydrocarbonate, calcium carbonate, sulfate, free carbonic acid, dissolved oxygen, metasilicic acid, metaboric acid, titanilic acid, succinic acid, benzoic acid, sulfur, brine, traces of iron, chromium, titanium, aluminum, gold, silver, platinum, selenium, molybdenum, ammonium, calcium, lithium, sodium, chlorite, iodide [sic], fluorine, bromine, sodium, thermal salts, potassium, magnesium, cobalt, zinc, meerschaum, granulite, like or related inorganic materials.

2. The use as recited in claim 1, characterized in that the composition according to the invention is dissolved to yield a molecularly dispersed distribution (particle size of less than 1 nm).

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<sup>10</sup>TRANSLATOR'S NOTE: Sic, for "aragonite." In German: *Arragonit* rather than *Aragonit*.

<sup>11</sup>TRANSLATOR'S NOTE: Sic, for "wurtzite."

<sup>12</sup>TRANSLATOR'S NOTE: Given here as the German synonym *Sprudelstein*.

3. The use as recited in claims 1 and 2, characterized in that said composition is homogenized with other materials having particle sizes of less than 1 nm.

4. The use as recited in claims 1-3, characterized in that said composition can comprise particle sizes of 1-100 nm.

5. The use as recited in claims 1-4, characterized in that said particle size can include larger than 100 nm [sic].

6. The use as recited in claims 1-5, characterized in that said particle size can include 100 to 290 nm or larger.

7. The use as recited in claims 1-6, characterized in that said composition can serve as a colloidal binder and the inorganic substances are suspended together with the organic substances.

8. The use as recited in claims 1-7, characterized in that said composition is dissolved or suspended by means of a high-energy milling process. Said process brings about the intimate diffusion of various trace elements that heretofore have been difficult or impossible to bind by processes commonly used heretofore; heating, melting or by chemical processes [punctuation sic]. Novel combinations of active ingredients with other, difficult-to-bind materials are made available by means of the composition according to the invention and the homogenization thereof at low temperatures down to approximately 100°C.

9. The use as recited in claims 1 to 8, characterized in that the composition according to the invention has Mohs hardnesses of 1-7, preferably 2-6, also preferably 3, 4 and 5.

10. The use as recited in claims 1 to 9, characterized in that said composition can contain additional precious minerals, rough precious and semiprecious stones, minerals, silicates from plutonic rocks, pegmatites, pneumatolytic, sedimentary, metamorphic, volcanic and crystalline deposits and meteorites in powdered form, of hardnesses 5-10, in the preferred degrees of suspension 1, 2 and 3, and hence in a molecularly dispersed distribution [with particle sizes] ranging down to less

than 1 nm, as light-conductive substances for strengthening biophoton emission, from the following list:

agate, alexandrite, actinolite, albite, almandine, andalusite, Andean opal, andradite, anorthite, amazonite, amethyst, amethyst quartz, ametrine, ahydrite, antimonite, aquamarine, asphalt, aventurine, azurite, basalt, tree agate, rock crystal, amber, beryl, biotite, bloodstone, boulder opal, boji, cut diamond, calcite, chalcedony, charoite, chiasolite, chlorite, chloromelanite, chrysoberyl, chrysocolla, chrysolite, chrysopal, chrysoprase, citrine, coelestine, demantoite, dendritic agate, diamond, diopase, diopside, kyanite, dolomite, dumortierite, eilat stone, elbaite, epidote, hawk's eye, feldspar, fire opal, flint, fluorite, jet, galliant, rock glass, mica, gold quartz, gold topaz, gneiss, garnet, granite, grossularite, hematite, halite, healstone, heliodor, heliotrope, herderite, hessonite, hiddenite, howlite, hyacinth, hyalite, indigolite, imperial topaz, jade, jadite, jasper, potassium feldspar, calcium feldspar, carnelian, cat's-eye, coral, corundum, crocidolite, kunzite, labradorite, landscape agate, landscape jasper, lapis lazuli, larimar, lasurite, lepidolite[,] leopard jasper, linobate, lithium niobate, magnesite, magnetite, malachite, marcasite, marble, moldavite, moonstone, mookaite, moss agate, morganite, gangue, soda feldspar, nephrite, obsidian, olivine, onyx, opal, orthoclase, padparadscha, pegmatite, peridot, pearl, pietersite, porphyry, portlandite, prasem, prasiolite, prenite, purpurite, pyrite, pyrope, pyrolusite, quartz, quartz glass, smoky quartz, rhodochrosite, rhodonite, rhyolite, rose quartz, royal azel, rubellite, ruby, Russian jade, rutile, Ruül quartz<sup>13</sup>, sapphire, sanidine, sandstone, sardonyx, fibrous sphalerite, snowflake obsidian, slate, schorl, black opal, selenite, serbentinite [sic], serpentine, imitations, emerald, sodalite, sunstone, sphene, spinel, spodumene, star ruby, star sapphire, sugilite, tanzanite, tectite, thulite, tiger eye, tiger iron, therapy stone, topaz, turquoise, tourmaline, tourmaline quartz, uvarovite, variscite, fossilized wood, watermelon stone, water opal, zircon, zoisite or varieties.

11. The use as recited in claims 1 to 10, characterized in that the elements, trace elements, metals, oxides and gases obtained from the raw materials, and the mixtures thereof, rendered homogeneous in reversible gels, can be contained from<sup>14</sup> sulfur springs, brine springs, mineral springs, mineral oil, geysers, seawater (e.g. the Dead Sea), sweet, salty, sour and bitter springs, marshes, peats, lakes, rivers (e.g. Ganges water, Lourdes, holy water or the like), glaciers and polar ice.

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<sup>13</sup>TRANSLATOR'S NOTE: German *Ruülquarz*. We were unable to confirm our literal translation; *Ruül* must be either a proper name or a misspelling.

<sup>14</sup>TRANSLATOR'S NOTE: Sic; undoubtedly "obtained from" was intended (*enthalten* views. *erhalten* in German).

12. The use as recited in claims 1 to 11, characterized in that from [sic] the composition according to the invention finds application in incinerated form and is also prepared as a remineralizing agent for agriculturally cultivated land.

13. The use as recited in claims 1 to 12, characterized in that the composition according to the invention is added to a skin-compatible, liquid, viscous, high-viscosity, waxy, powdery, crystalline or solid carrier material.

14. The use as recited in claims 1 to 13, characterized in that said carrier material [is] a liquid, dries readily, and readily emulsifies with the composition according to the invention, optionally with the use of emulsion stabilizers.

15. The use as recited in 1 to 14 [sic], characterized in that said carrier material is composed of natural, nature-identical, chemical or synthetic mineral and vegetable oils, mineral and vegetable extracts, mineral and vegetable macerates, decoctions, mineral and vegetable infusions, and of animal products, preferably fats, such as, for example, wool fat, salmon oil, mink oil, cows' milk, sheep's milk, goats [sic], mares' milk, camel milk, llama milk, donkey milk or reindeer milk and products made therefrom.

16. The use as recited in 1 to 15, characterized in that said carrier material is a natural skin oil and is heated, suspended and levitated<sup>15</sup> with gemstone and healing-stone nanocrystals.

17. The use as recited in 1 to 16, characterized in that said carrier material is composed of clay deposits, mud deposits, salts, diatoms, sand, corals, pearls, cuttlebone, mussels, gypsum, chalk, snails, sponges, water plants, algae, seaweed, marine animals and can be suspended by incineration, chemical, alchemical, spagyric or physical processes with animal, milk, bee and insect products, plants, woods, resins, particularly myrrh, frankincense, benzoin, cedar resin and guggule, fossilized wood, amber, plant parts; and/or infusions, oils, juices, spices, acids, salts, bases, minerals, fragrances, preservatives, ethereal oils, essences, elixirs, salves, baths, creams, tinctures, alcohols, waters and ashes made therefrom can be included in the implementation according to the invention.

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<sup>15</sup> TRANSLATOR'S NOTE: Sic; German *levitiert*. Since the preparation has already been

18. The use as recited in 1 to 17, characterized in that made therefrom are health-care preparations such as, for example, bath salts, bath additives, bath waters, vapor baths, balms, personal care creams, massage oils, lotions, soap, sunscreens, hair care preparations, facial masks, body wraps, sprays, water for inhalation, thermal waters, mineral waters, sauna splashes, deodorants, fragrance compositions, incense, perfumes, oral hygiene preparations, toothpastes, mouthwashes, medicinal chewing gums, cavity-, tartar-, gingivitis- and periodontal-disease-preventing and healing-promoting preparations, nutritional supplements, macrobiotic and orthomolecular nutritional substances, dietetic foods, processed or prepared meals, drinks, medicinal waters, mineral waters, sparkling, lemonade and electrolyte drinks, drops, tinctures, essences, elixirs, homeopathic potencies, globules, infusions, tablets, nanotherapeutic and molecular-therapeutic gemstone and healing-stone naturopathic remedies, veterinary-medical and pharmaceutical preparations.

19. The use as recited in 1 to 18, characterized in that said carrier material, with adjuvants, is filled into pots, bottles, plastic, cans, boxes, tubes, bags, glasses, dispensers, vials and cartons or is pressed or poured into tablets, deodorant sticks, bars and personal care sticks or portioned as a powdered mixture.

20. The use as recited in any of claims 1 to 19, characterized in that made therefrom are preparations for prevention, the promotion of healing, and follow-up care in connection with: problem skin, pimples, blackheads, warts, eczema, orange-peel skin, sweaty hands, sweaty feet, axillary perspiration, psoriasis, acne, oily, dry, chapped and moist reddened skin and damaged hair, psoriasis<sup>16</sup>, visible blood vessels, scars, allergies, brittle nails and hair, body and mouth odor, as well as infant care, hemorrhoids, varicose veins, birthmarks, and edema of the legs.

21. The use as recited in any of claims 1 to 20, characterized in that the composition according to the invention is used between 0.0000001 to 100 weight-percent [syntax sic].

22. The use as recited in claims 1 to 21, characterized in that the composition according to the invention preferably can total between 1 and 10 weight-percent. The amount can also be increased or decreased, depending on the intended purpose.

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suspended, we would assume this to be an error for *levigiert*, levigated.

<sup>16</sup>TRANSLATOR'S NOTE: Here called by its Germanic name, *Schuppenflechte*; stated a few items earlier as *Psoriasis*.

23. The use as recited in any of claims 1 to 22, characterized in that the composition according to the invention is made from the following known thermal, medicinal, brine, sulfur, mineral, mud or marsh deposits or from the spa waters purveyed at these sites.

Baden-Baden, Bad Wildbad, Bad Liebenzell, Bad Teinach-Zavelstein, Bad Herrenalb, Bad Bellingen, Bad Cannstatt, Bad Urach, Bad Dür rheim, Bad Abbach, Bad Aegir, Bad Aibling, Bad Alexandersbad, Badenhäusen, Bad Bentheim, Badbergen, Bad Bergzabern, Bad Berka, Bad Berleburg, Bad Berneck, Bad Bertrich, Bad Bevensen, Bad Bibra, Bad Birnbach, Bad Blankenburg, Bad Bocklet, Bad Bodendorf, Bad Sinzig, Bad Boll, Bad Brambach, Bad Bramstedt, Bad Breisig, Bad Brückenau, Bad Buchau, Bad Camberg, Bad Colberg, Baddeckenstadt, Bad Ditzgenbach, Bad Doberan, Bad Driburg, Bad Düben, Bad Dürkheim, Bad Dürrenberg, Bad Eilsen, Bad Elster, Bad Ems, Bad Emstal, Bad Endbach, Badenweiler, Bad Essen, Bad Feilnbach[,], Bad Frankenhausen, Bad Freienwalde, Bad Friedrichshall, Bad Füssing, Bad Gandersheim, Bad Gedesberg, Bad Gögging, Bad Gottleuba, Bad Peterstal-Griesbach, Bad Grund, Bad Harzburg, Bad Heilbrunn, Bad Helmstedt, Bad Herrmannsborn, Bad Hersfeld, Bad Höhenstadt-Fürstenzell, Bad Hönningen, Bad Homburg, Bad Honnef, Bad Iburg, Bad Immnau-Haigerloch [sic], Bad Karlshafen, Bad Kissingen, Bad Kleinen, Bad Klosterlausnitz, Bad König, Bad Königshofen, Bad Kösen, Bad Köstritz, Bad Kohlgrub, Bad Kreuznach, Bad Krotzingen, Bad Laaspe, Bad Laer, Bad Langenbrücken, Bad Schönborn, Bad Langensalza, Bad Lauchstädt, Bad Lausig, Bad Lauterberg, Bad Liebenstein, Bad Liebenwerda, Bad Linda, Bad Lippspringe, Bad Marienberg, Bad Meinberg, Bad Mergentheim, Bad Mingolsheim, Bad Schönborn, Bad Münder, Bad Münster, Bad Münstereifel, Bad Muskau, Bad Nauheim, Bad Nenndorf, Bad Neuenahr, Bad Neustadt, Bad Breisig, Bad Niedernau, Bad Oberdorf-Hindelang, Bad Oyenhausen, Bad Oldeslohe, Bad Orb, Bad Pyrmont, Bad Rappena, Bad Reibolsgrün, Bad Reichenhall, Bad Rippoldsau-Schappach, Bad Rothenfelde, Bad Saarow-Pieskau, Bad Sachsa, Bad Säckingen, Bad Salzdorf, Bad Salzhausen-Nidda, Bad Salzig-Boppard, Bad Salzschiefer, Bad Salzuflen, Bad Salzungen, Bad Sassendorf, Bad Schandau, Bad Schmiedeberg, Bad Schönbörn, Bad Schussenried, Bad Schwalbach, Bad Schwartau, Bad Segeberg, Bad Soden-Saalmünster, Bad Soden/Taunus[,], Bad Soden-Allendorf, Bad Steben, Bad Stuer, Bad Studerode, Bad Sulza, Bad Sülze, Bad Tennstedt, Bad Tölz, Bad Überkingen, Bad Vilbel, Bad Waldliesborn, Bad Waldsee, Bad Westernkotten, Wiesbaden, Bad Wiessee, Bad Wildungen, Bad Wilsnack, Bad Wimpfen, Bad Windsheim, Bad Wörrishofen, Bad Wurzach, Bad Zwesten, Bad Zwischenahn, Thermalbad Beuren/Baden Württemberg. Karlsbad in Czechoslovakia, Abano Terme, Ischia, Chianciano, Fiuggi in Italy, Monaco, Liechtenstein, Vittell in France, Bad Bleiberg/Villach, Austria, Budapest, Hungary. Further deposits in Poland, Russia,

Ukraine, Byelorussia, Siberia, Yugoslavia, Croatia, Serbia, Herzegovina, Macedonia, Albania, Greece, Turkey, Lebanon, Syria, Israel, Palestine, Norway, Sweden, Finland, Lithuania, Latvia, Estonia, Spain, Portugal, The Netherlands, Belgium, Luxembourg, England, Scotland, Ireland, Iceland, Greenland and also the domestic and foreign deposits not cited are claimed according to the invention.

24. The use as recited in claims 1-23, characterized in that said composition is calcined by means of high heat and intense pressure.

25. The use as recited in claims 1-24, characterized in that porous and/or solid ceramic molds are made from the calcined composition.

26. The use as recited in claim 25, characterized in that made therefrom are repositories of active ingredient in the form of tablets, pills, capsules or globules.

27. The use as recited in claims 23-26, characterized in that said composition is heated to high temperature, quenched in liquid and preparations are made therefrom.

28. The use as recited in claims 23-27, characterized in that so-called "healing stones" or "health jewelry" are made from the ceramic molds.

29. A preferred use of the composition of bath additives according to the invention, for example before, during, in place of or after a spa treatment or as an adjunct to therapy as safe self-medication, including at home, which is desirable in order to reduce the cost of health care.

30. This object is accomplished according to the invention by means of the use recited in claim 29, characterized in that made from inorganic hydrothermal deposits, for example so-called "thermal hot-springs deposits" of arragonite [sic]/calcite, is a molecularly dispersed distribution, ranging down to less than 1 nm, of homogeneous solutions or reversible gels, particularly in dispersities 1, 2 and 3, [with] particle sizes also ranging up to 290 nm (nanometers), in liquid, powder or crystallized form or press-compacted into portions.

31. The compositions according to the invention are preferably used with volatile, liquid, viscous, waxy, powdered or solid carrier materials that are skin-compatible, are natural insofar as possible, and are generally recognized as allergologically safe.

32. The ingredients can be mineral deposits from specific thermal, mineral, brine, sulfur, mud or hot springs, but are also composed of mixtures deriving from different thermal, mineral, brine, mud or hot springs, streams, rivers, lakes, seas and their deposits, or alternatively are mixed with tapwater, fresh water, springwater and distilled water.



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